

*J9REG

% =====
% = ROUTINE 6.1 =
% =====

%%
%% ROUTINE TO LAY OUT A SINTRAN-III SYSTEM ON DISKETTE. %%
%% THE ROUTINE USES TWO DISKETTES %%
%% FIRST DISKETTE CONTAINS MACM AND FIRST SINTRAN-FILE %%
%% SECOND DISKETTE CONTAINS SECOND SINTRAN-FILE , SYMBOL-LIST AND %%
%% PATCHFILE FOR THIS VERSION. %%
%% %%
%% THIS ROUTINE MUST BE USED FOR S-III VERSION 80.02.01.A %%
%% %%
%% ROUTINE LAST MODIFIED: 80.03.20 BY: LA %%
%% %%
%% ROUTINE IS CALLED FROM FORTRAN: CALL FLODU (JBN0) %%
%%

FLOD1:SYMB

*J9ENT FLODU

%%
%% DATA AND DEFINITION PART %%
%%

BASE AA
INTEGER FORM,CUNIT,CHCB,SAVX,SAVT,BUFFP:=BUFFER
INTEGER DESTFILE,SOURCEFILE
INTEGER POINTER OUTTEXT:=9OUTTEXT,READTEXT:=8READTEXT,INBT:=9INBT
INTEGER POINTER OUTBT:=9OUTBT,MOVCHAR:=9MOVCHAR,ASK1:=9ASK1
INTEGER POINTER STSPACE:=9STSPACE,STAPO:=9STAPO,STCHAR:=9STCHAR
INTEGER POINTER MON70:=9MON70,COPYTEXT:=TEXTCOPY,COPYFILE:=FILECOPY
INTEGER POINTER LINK1,LINK2,LINK3
ESAB

INTEGER ADIRNAM:='\$COMMON PART OF DIRECTORY NAME: '
INTEGER ADEVNAM:='\$DEVICE NAME: '
INTEGER AUNITNO:='\$DEVICE UNIT: '
INTEGER APERIFILE:='\$PERIPHERAL FILE NAME: '
INTEGER AFORMAT:='\$\$FORMATING THE DISKETTE? '
INTEGER DIONE:='-I'
INTEGER DITWO:='-II'
INTEGER CREDIR:='CREATE-DIRECTORY'
INTEGER ENTDIR:='ENTER-DIRECTORY'
INTEGER CREUSER:='CREATE-USER'
INTEGER GIVUSER:='GIVE-USER-SPACE'
INTEGER ALLFILE:='ALLOCATE-FILE'
INTEGER DEVFU:='DEVICE-FUNCTION'
INTEGER BOOTSTRAP:=' DUMP-BOOT FLOPPY-MONITOR'
INTEGER FORMAT:='FORMAT'
INTEGER RELDIR:='RELEASE-DIRECTORY'
INTEGER SYSTEM:='SYSTEM'
INTEGER BITFADR:='231B'
INTEGER NOPAGES:='148'
INTEGER SINT1:=':SYSTEM)SINTRAN-I:BPUN'
INTEGER SINT2:=':SYSTEM)SINTRAN-II:BPUN'
INTEGER MACM:=':SYSTEM)MACM-1718H:BPUN'
INTEGER PATCHF:=':SYSTEM)PATCHFILE:SYMB'
INTEGER SYMBLI:=':SYSTEM)SYMBOL-LIST:SYMB'
INTEGER AMACM:=':SYSTEM)MACM-1718H:BPUN,128D,20D'
INTEGER ASIN1:=':SYSTEM)SINTRAN-I:BPUN,1,127D'
INTEGER ASIN2:=':SYSTEM)SINTRAN-II:BPUN,1,100D'
INTEGER APATCHF:=':SYSTEM)PATCHFILE:SYMB,101D,30D'
INTEGER ASYMBLI:=':SYSTEM)SYMBOL-LIST:SYMB,131D,16D'
INTEGER FITERM:='\$--- FIRST FLOPPY FINISHED ---\$'
INTEGER CHAMESS:='\$PLEASE CHANGE DISKETTES TO CONTINUE DUMPING.'
INTEGER FINISH:='\$--- DUMPING OF SINTRAN FINISHED ---\$'
INTEGER ARRAY DIRNAM(40),PERIFILE(40),DEVNAM(40),BUFFER(140),YESNO(40)
INTEGER SAVB,SAVL
DISP 0; INTEGER POINTER JOBNO; PSID % PARAMETER POINTER
DISP 7; INTEGER FINO; PSID % DISPLACEMENT IN FILE NAMES

%%
%% CONFIGURATION INDEPENDENT FILES. %%
%%
%% RT-LOADER %%
INTEGER BPUN1:='(SINTRAN)BPUN1:SYMB'
%% FILE-SYSTEM PART OF FILE-SYSTEM-SEGMENT
INTEGER BPUN2:='(SINTRAN)BPUN2:SYMB'
%% SINTRAN PART OF SYSTEM SEGM. AND OP. SEGM.
INTEGER BPUN4:='(SINTRAN)BPUN4:SYMB'
INTEGER ULST1:='(SINTRAN)ULIST1:SYMB'
INTEGER ULST2:='(SINTRAN)ULIST2:SYMB'
INTEGER ULST4:='(SINTRAN)ULIST4:SYMB'
INTEGER SMACM:='(SINTRAN)MACM-1718H:BPUN'

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%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%% CONFIGURATION DEPENDANT FILES. (USER-NAME MUST BE 7 CHARACTERS.)
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%%
%% ALL RESIDENT
INTEGER BPUN5:='(AUX-SIN)BPUN-00-5:SYMB'
%%
%% FILE-SYSTEM PART OF SINTRAN PART II
INTEGER BPUN6:='(AUX-SIN)BPUN-00-6:SYMB'
%%
%% FILE-SYSTEM PART OF SYSTEM SEGM.
INTEGER BPUN7:='(AUX-SIN)BPUN-00-7:SYMB'
%%
%% SINTRAN COMM. ROUTINES (REMOTE-LOAD)
INTEGER BPUN8:='(AUX-SIN)BPUN-00-8:SYMB'
%%
%% POF
INTEGER BPUNA:='(AUX-SIN)BPUN-00-A:BPUN'
%%
%% START-PROGRAM
INTEGER BPUNB:='(AUX-SIN)BPUN-00-B:BPUN'
%%
%% ERROR SEGM.
INTEGER BPUNE:='(AUX-SIN)BPUN-00-E:BPUN'
%%
%% SPOOLING-PROGRAM SEGM.
INTEGER BPUNX:='(AUX-SIN)BPUN-00-X:BPUN'
INTEGER L5IST:='(AUX-SIN)LIST-00:SYMB'
INTEGER SPATCHF:='(AUX-SIN)PATCHES-80A:SYMB'

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%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%% JOB NUMBERS IN ASCII. (00-99)
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
@ICR;
INTEGER ARRAY JBNO:=(
30060,30061,30062,30063,30064,30065,30066,30067,30070,30071,
30460,30461,30462,30463,30464,30465,30466,30467,30470,30471,
31060,31061,31062,31063,31064,31065,31066,31067,31070,31071,
31460,31461,31462,31463,31464,31465,31466,31467,31470,31471,
32060,32061,32062,32063,32064,32065,32066,32067,32070,32071,
32460,32461,32462,32463,32464,32465,32466,32467,32470,32471,
33060,33061,33062,33063,33064,33065,33066,33067,33070,33071,
33460,33461,33462,33463,33464,33465,33466,33467,33470,33471,
34060,34061,34062,34063,34064,34065,34066,34067,34070,34071,
34460,34461,34462,34463,34464,34465,34466,34467,34470,34471);
@CR;

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%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
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%% ENTRYPOINT CALLED FROM FORTRAN.

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SUBR FLODU
FLODU: A=:B=:SAVB
A=:L=:SAVL

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X:=JOBNO; A:=JBNO(X)           % GET PARAMETER AND ASCII EQUIV.
X:="BPUN5"; A=:X.FINO          % MODIFY FILENAMES WITH
X:="BPUN6"; A=:X.FINO          % JOB-NUMBER.
X:="BPUN7"; A=:X.FINO          %
X:="BPUN8"; A=:X.FINO          %
X:="BPUNA"; A=:X.FINO          %
X:="BPUNB"; A=:X.FINO          %
X:="BPUNE"; A=:X.FINO          %
X:="BPUNX"; A=:X.FINO          %
X:="L5IST"; A=:X.FINO          %

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CALL DUMP
SAVB=:B
SAVL=:L
EXIT

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REBUS

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%% RETURN TO FORTRAN.

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%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

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SUBR DUMP

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DUMP: "AA"=:B                  % B-REG POINTS TO BASE AA
A=:L=:LINK2"
O=:FORM=:CUNIT

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% READ DIRECTORY NAME
"ADIRNAM"; CALL OUTTEXT; T:="DIRNAM"; CALL READTEXT

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% READ DEVICE NAME
"ADEVNAM"; CALL OUTTEXT; T:="DEVNAM"; CALL READTEXT

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% READ UNIT NUMBER
ASKUNIT: "AUNITNO"; CALL OUTTEXT; CALL INBT
IF A<##0 OR A>##2 AND A><##N GO ASKUNIT
A=:CUNIT; DO CALL INBT WHILE A><15 OD

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% READ THE PERIPHERAL FILE NAME OF THE FLOPPY DISC
"APERIFILE"; CALL OUTTEXT; T:="PERIFILE"; CALL READTEXT

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% D U M P I N G   F L O P P Y - I
%
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% ASK IF DISKETTE SHOULD BE FORMATED
CALL ASK1

% FORMAT THE DISKETTE IF FORM><0
IF FORM><0 THEN
O=:CHCB; T:="DEVFU"; CALL MOVCHAR; CALL STSPACE
T:="PERIFI"; CALL MOVCHAR; CALL STSPACE
T:="FORMAT"; CALL MOVCHAR; CALL STAPO
CALL MON70; GO L1; *)FILL

FI
L1: O=:CHCB=:FORM

% CREATE DIRECTORY
T:="CREDIR"; CALL MOVCHAR; CALL STSPACE
T:="DIRNAM"; CALL MOVCHAR; T:="DIONE"; CALL MOVCHAR
CALL STSPACE; T:="DEVNAM"; CALL MOVCHAR
IF CUNIT><##N THEN
CALL STSPACE; CUNIT; CALL STCHAR
FI; CALL STSPACE; T:="BITFADR"; CALL MOVCHAR
CALL STAPO; CALL MON70

% ENTER DIRECTORY
O=:CHCB
T:="ENTDIR"; CALL MOVCHAR; CALL STSPACE
T:="DIRNAM"; CALL MOVCHAR; CALL STSPACE
T:="DEVNAM"; CALL MOVCHAR
IF CUNIT><##N THEN
CALL STSPACE; CUNIT; CALL STCHAR
FI; CALL STAPO; CALL MON70

% CREATE USER
O=:CHCB
T:="CREUSER"; CALL MOVCHAR; CALL STSPACE
T:="DIRNAM"; CALL MOVCHAR; ##:; CALL STCHAR
T:="SYSTEM"; CALL MOVCHAR; CALL STAPO
CALL MON70; GO L2; *)FILL

% GIVE USER SPACE
L2: O=:CHCB
T:="GIVUSER"; CALL MOVCHAR; CALL STSPACE
T:="DIRNAM"; CALL MOVCHAR; ##:; CALL STCHAR
T:="SYSTEM"; CALL MOVCHAR; CALL STSPACE
T:="NOPAGES"; CALL MOVCHAR; CALL STAPO
CALL MON70

% ALLOCATE THE MACM-FILE
O=:CHCB
T:="ALLFILE"; CALL MOVCHAR; CALL STSPACE
##(; CALL STCHAR; T:="DIRNAM"; CALL MOVCHAR
T:="DIONE"; CALL MOVCHAR; T:="AMACM"; CALL MOVCHAR
CALL STAPO; CALL MON70

% ALLOCATE THE SINTRAN-I FILE
O=:CHCB
T:="ALLFILE"; CALL MOVCHAR; CALL STSPACE
##(; CALL STCHAR; T:="DIRNAM"; CALL MOVCHAR
T:="DIONE"; CALL MOVCHAR
T:="ASIN1"; CALL MOVCHAR; CALL STAPO; CALL MON70

% COPY MACM TO THE DISKETTE

O=:CHCB
X:="SMACM"; T:=1; *MON 50; MON 65
A=:SOURCEFILE; O=:CHCB
##(; CALL STCHAR; T:="DIRNAM"; CALL MOVCHAR
T:="MACM"; CALL MOVCHAR; CALL STAPO
X:=BUFFP; T:=0; *MON 50; MON 65
A=:DESTFILE; CALL COPYFILE
T:=SOURCEFILE; *MON 43; MON 65
T:=DESTFILE; *MON 43; MON 65

% OPEN THE FILE SINTRAN-I ON DISKETTE
O=:CHCB
##(; CALL STCHAR; T:="DIRNAM"; CALL MOVCHAR
T:="DIONE"; CALL MOVCHAR; T:="SINT1"; CALL MOVCHAR
CALL STAPO; X:=BUFFP; T:=0; *MON 50; MON 65
A=:DESTFILE

% COPY TEXT TO THE SINTRAN FILE
"TX010"; CALL COPYTEXT
"TX020"; CALL COPYTEXT; GO LF1; *)FILL

% OPEN THE FIRST BINARY FILE (FILE SYSTEM)
LF1: X:="BPUM5"; T:=1; *MON 50; MON 65
A=:SOURCEFILE; CALL COPYFILE

% COPY TEXT TO THE DISKETTE
"TX030"; CALL COPYTEXT

% COPY NEXT BINARY FILE TO DISKETTE
T:=SOURCEFILE; *MON 43; MON 65
X:="BPUN7"; T:=1; *MON 50; MON 65
A=:SOURCEFILE; CALL COPYFILE

% COPY TEXT TO THE DISKETTE

"TX040"; CALL COPYTEXT

% COPY SWAP-DRIVER TO DISKETTE
T:=SOURCEFILE; *MON 43; MON 65
X:="BPUNB"; T:=1; *MON 50; MON 65
A:=SOURCEFILE; CALL COPYFILE

"TX050"; CALL COPYTEXT

% OPEN THE NEXT BINARY FILE AND COPY TO DISKETTE
T:=SOURCEFILE; *MON 43; MON 65
X:="BPUN6"; T:=1; *MON 50; MON 65
A:=SOURCEFILE; CALL COPYFILE

% COPY TEXT TO THE DISKETTE
"TX060"; CALL COPYTEXT

% OPEN THE NEXT BINARY FILE AND COPY TO DISKETTE
T:=SOURCEFILE; *MON 43; MON 65
X:="LSIST"; T:=1; *MON 50; MON 65
A:=SOURCEFILE; CALL COPYFILE

% COPY TEXT TO THE DISKETTE
"TX070"; CALL COPYTEXT
GO L3; *)FILL

% COPY THE NEXT BINARY FILE TO THE DISKETTE
L3: T:=SOURCEFILE; *MON 43; MON 65
X:="BPUN2"; T:=1; *MON 50; MON 65
A:=SOURCEFILE; CALL COPYFILE

% COPY TEXT TO DISKETTE
"TX080"; CALL COPYTEXT

% ULIST2 TO DISKETTE
T:=SOURCEFILE; *MON 43; MON 65
X:="ULST2"; T:=1; *MON 50; MON 65
A:=SOURCEFILE; CALL COPYFILE

% COPY TEXT TO THE DISKETTE
"TX090"; CALL COPYTEXT

% COPY NEXT BINARY FILE TO DISKETTE
T:=SOURCEFILE; *MON 43; MON 65
X:="BPUNE"; T:=1; *MON 50; MON 65
A:=SOURCEFILE; CALL COPYFILE

%TEXT TO DISKETTE
"TX100"; CALL COPYTEXT

% NEXT BINARY FILE TO DISKETTE
T:=SOURCEFILE; *MON 43; MON 65
X:="BPUN1"; T:=1; *MON 50; MON 65
A:=SOURCEFILE; CALL COPYFILE

% TEXT TO DISKETTE
"TX110"; CALL COPYTEXT

% ULIST1 TO DISKETTE
T:=SOURCEFILE; *MON 43; MON 65
X:="ULST1"; T:=1; *MON 50; MON 65
A:=SOURCEFILE; CALL COPYFILE; GO L4; *)FILL

% TEXT TO DISKETTE
L4: "TX120"; CALL COPYTEXT

% CLOSE ALL FILES AND RELEASE DIRECTORY
T:=-1; *MON 43; MON 65
O:=CHCB
T:="RELDIR"; CALL MOVCHAR; CALL STSPACE; T:="DIRNAM"; CALL MOVCHAR
T:="DIONE"; CALL MOVCHAR; CALL STAPO; CALL MON70

% DUMP BOOTSTRAP ON DISKETTE
O:=CHCB
T:="DEVFU"; CALL MOVCHAR; CALL STSPACE
T:="PERIFI"; CALL MOVCHAR; T:="BOOTSTRAP"; CALL MOVCHAR
CALL STAPO; CALL MON70

% WRITE MESSAGE TO OPERATOR TO INSERT NEW DISKETTE
"FITERM"; CALL OUTTEXT
"CHAMESS"; CALL OUTTEXT

%=====

% D U M P I N G F L O P P Y - I I

%=====

% ASK IF DISKETTE SHOULD BE FORMATED
CALL ASK1

% FORMAT THE DISKETTE IF FORM><0
IF FORM><0 THEN
O:=CHCB; T:="DEVFU"; CALL MOVCHAR; CALL STSPACE
T:="PERIFI"; CALL MOVCHAR; CALL STSPACE
T:="FORMAT"; CALL MOVCHAR; CALL STAPO

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CALL MON70; GO L5; *)FILL
FI
L5: 0=:CHCB

% CREATE DIRECTORY
T:="CREDIR"; CALL MOVCHAR; CALL STSPACE
T:="DIRNAM"; CALL MOVCHAR; T:="DITWO"; CALL MOVCHAR
CALL STSPACE; T:="DEVNAM"; CALL MOVCHAR
IF CUNIT><##N THEN
    CALL STSPACE; CUNIT; CALL STCHAR
FI
CALL STSPACE; T:="BITFADR"; CALL MOVCHAR
CALL STAPO; CALL MON70

% ENTER DIRECTORY
0=:CHCB
T:="ENTDIR"; CALL MOVCHAR; CALL STSPACE
T:="DIRNAM"; CALL MOVCHAR; CALL STSPACE
T:="DEVNAM"; CALL MOVCHAR
IF CUNIT><##N THEN
    CALL STSPACE; CUNIT; CALL STCHAR
FI; CALL STAPO; CALL MON70

% CREATE USER
0=:CHCB
T:="CREUSER"; CALL MOVCHAR; CALL STSPACE
T:="DIRNAM"; CALL MOVCHAR; ##:; CALL STCHAR
T:="SYSTEM"; CALL MOVCHAR; CALL STAPO
CALL MON70; GO L6; *)FILL

% GIVE USER SPACE
L6: 0=:CHCB
T:="GIVUSER"; CALL MOVCHAR; CALL STSPACE
T:="DIRNAM"; CALL MOVCHAR; ##:; CALL STCHAR
T:="SYSTEM"; CALL MOVCHAR; CALL STSPACE
T:="NOPAGES"; CALL MOVCHAR; CALL STAPO
CALL MON70

% ALLOCATE THE SINTRAN-II FILE
0=:CHCB
T:="ALLFILE"; CALL MOVCHAR; CALL STSPACE
##(; CALL STCHAR; T:="DIRNAM"; CALL MOVCHAR
T:="DITWO"; CALL MOVCHAR; T:="ASIN2"; CALL MOVCHAR
CALL STAPO; CALL MON70

% ALLOCATE THE PATCHFILE
0=:CHCB
T:="ALLFILE"; CALL MOVCHAR; CALL STSPACE
##(; CALL STCHAR; T:="DIRNAM"; CALL MOVCHAR
T:="DITWO"; CALL MOVCHAR
T:="APATCHPF"; CALL MOVCHAR; CALL STAPO; CALL MON70
GO LF2; *)FILL

% ALLOCATE THE SYMBOL-FILE
LF2: 0=:CHCB
T:="ALLFILE"; CALL MOVCHAR; CALL STSPACE
##(; CALL STCHAR; T:="DIRNAM"; CALL MOVCHAR
T:="DITWO"; CALL MOVCHAR
T:="ASYMBLI"; CALL MOVCHAR; CALL STAPO; CALL MON70

% OPEN THE FILE SINTRAN-II ON DISKETTE
0=:CHCB
##(; CALL STCHAR; T:="DIRNAM"; CALL MOVCHAR
T:="DITWO"; CALL MOVCHAR; T:="SINT2"; CALL MOVCHAR
CALL STAPO; X:=BUFFP; T:=0; *MON 50; MON 65
A:=DESTFILE

% TEXT TO THE DISKETTE
"TX130"; CALL COPYTEXT

% OPEN THE FIRST BINARY-FILE
X:="BPUNX"; T:=1; *MON 50; MON 65
A:=SOURCEFILE; CALL COPYFILE
"TX140"; CALL COPYTEXT

% NEXT BINARY-FILE TO DISKETTE
T:=SOURCEFILE; *MON 43; MON 65
X:="BPUNA"; T:=1; *MON 50; MON 65
A:=SOURCEFILE; CALL COPYFILE
"TX150"; CALL COPYTEXT

% NEXT BINARY FILE TO DISKETTE
T:=SOURCEFILE; *MON 43; MON 65
X:="BPUN4"; T:=1; *MON 50; MON 65
A:=SOURCEFILE; CALL COPYFILE

% TEXT TO DISKETTE
"TX160"; CALL COPYTEXT

% ULIST4 TO DISKETTE
T:=SOURCEFILE; *MON 43; MON 65
X:="ULST4"; T:=1; *MON 50; MON 65
A:=SOURCEFILE; CALL COPYFILE
"TX170"; CALL COPYTEXT; GO LF3; *)FILL

% NEXT BINARY-FILE TO DISKETTE

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LF3:  T:=SOURCEFILE; *MON 43; MON 65
      X:="BPUN8"; T:=1; *MON 50; MON 65
      A:=SOURCEFILE; CALL COPYFILE

% TEXT TO DISKETTE
      "TX180"; CALL COPYTEXT

% CLOSE DESTINATION AND SOURCEFILE
      T:=DESTFILE; *MON 43; MON 65
      T:=SOURCEFILE; *MON 43; MON 65

% COPY SYMBOL-LIST TO DISKETTE
      O:=CHCB
      X:="LSIST"; T:=1; *MON 50; MON 65
      A:=SOURCEFILE; O:=CHCB
      ##(; CALL STCHAR; T:="DIRNAM"; CALL MOVCHAR
      T:="SYMBLI"; CALL MOVCHAR; CALL STAPO
      X:=PUFFP; T:=0; *MON 50; MON 65
      A:=DESTFILE; CALL COPYFILE
      "TX000"; CALL COPYTEXT
      T:=SOURCEFILE; *MON 43; MON 65
      T:=DESTFILE; *MON 43; MON 65

% COPY PATCH-FILE TO DISKETTE
      O:=CHCB
      X:="SPATCHF"; T:=1; *MON 50; MON 65
      A:=SOURCEFILE; O:=CHCB
      ##(; CALL STCHAR; T:="DIRNAM"; CALL MOVCHAR
      T:="PATCHF"; CALL MOVCHAR; CALL STAPO
      X:=BUFFP; T:=0; *MON 50; MON 65
      A:=DESTFILE; CALL COPYFILE
      T:=SOURCEFILE; *MON 43; MON 65
      T:=DESTFILE; *MON 43; MON 65

% RELEASE DIRECTORY
      O:=CHCB
      T:="RELDIR"; CALL MOVCHAR; CALL STSPACE
      T:="DIRNAM"; CALL MOVCHAR; T:="DITWO"; CALL MOVCHAR
      CALL STAPO; CALL MON70

% SUBROUTINE TERMINATES
      "FINISH"; CALL CUTTEXT
      GO LINK2

RPUS

%
% 9ASK1
% SUBROUTINE TO ASK IF DISKETTE SHOULD BE FORMATED
%
% RETURN: 0 IN FORM IF NO, 1 IF YES
%

SUBR 9ASK1
9ASK1: A:=L:="LINK3"
      "AFORMAT"; CALL OUTTEXT; T:="YESNO"; CALL READTEXT
      X:=0; "YESNO"=:D; *LBYT; AAX 1
      IF A=##Y THEN
          T:=D; *LBYT; AAX 1
          IF A><##E AND A><##' GO 9ASK1
          IF A=##' GO YES
          T:=D; *LBYT; AAX 1
          IF A><##S AND A><##' GO 9ASK1
          IF A=##' GO YES
          T:=D; *LBYT; AAX 1
          IF A><##' GO 9ASK1
      YES: MIN FORM
      ELSE
          IF A=##N THEN
              T:=D; *LBYT; AAX 1
              IF A><##G AND A><##' GO 9ASK1
              IF A=##' GO LX
              T:=D; *LBYT
              IF A><##' GO 9ASK1
          ELSE
              GO 9ASK1
      LX: FI; FI
      GO LINK3
      RPUS

%
% READTEXT
% SUBROUTINE TO READ A TEXT STRING FROM THE TERMINAL
% THE INPUT SHOULD BE TERMINATED WITH CARRIAGE RETURN
%
% ENTRY: T=ADDRESS OF THE ARRAY WHERE THE TEXT STRING SHOULD
%        BE STORED
%
% RETURN: TEXT STRING TERMINATED WITH THE CHARACTER "." IN THE ARRAY
%

SUBR 8READTEXT
8READTEXT: A:=L:="LINK1"
          X:=0; T:=D

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DO CALL INBT WHILE A><15
  IF A=21 THEN ##; CALL OUTBT; X:=0; GO NEXT FI
  IF A=1 THEN ##; CALL OUTBT; X-1; GO NEXT FI
  IF X>100 GO NEXT
  T:=D; *SBYT; AAX 1
NEXT: OD; T:=D; ##; *SBYT
GO LINK1

RBUS

%
% INBT
% SUBROUTINE TO READ ONE CHARACTER FROM THE TERMINAL
%
% RETURN: A=CHARACTER
%

SUBR 9INBT
9INBT: T:=SAVT:=1; *MON 1; MON 65
A/0177; T:=SAVT; EXIT

RBUS

%
% MOVCHAR
% SUBROUTINE TO MOVE CHARACTERS FROM A TEXT STRING TO AN ARRAY
%
% ENTRY: T=ADDRESS OF TEXT STRING
%

SUBR 9MOVCHAR
9MOVCHAR: A:=L:="LINK1"
T:=D; X:=0
DO T:=D; *LBYT
  WHILE A><##; CALL STCHAR; X+1
OD; GO LINK1

RBUS

%
% STCHAR
% SUBROUTINE TO STORE ONE CHARACTER IN THE ARRAY NAMED BUFFER
%
% ENTRY: A=CHARACTER
%

SUBR 9STCHAR
9STCHAR: X:=SAVX:=CHCB; T:=BUFFP; *SBYT
MIN CHCB; X:=SAVX; EXIT

RBUS

%
% STAPO - STSPACE
% SUBROUTINES TO STORE A SPACE OR A "" IN THE ARRAY NAMED BUFFER
%

SUBR 9STAPO,9STSPACE
9STAPO: ##; GO STCHAR
9STSPACE: 40; GO STCHAR
RBUS

%
% OUTTEXT
% SUBROUTINE TO PRINT A TEXT STRING ON THE TERMINAL
%
% ENTRY: A=ADDRESS OF THE TEXT STRING
%

SUBR 9OUTTEXT
9OUTTEXT: T:=L:="LINK1"
A:=D; X:=0
DO T:=D; *LBYT
  WHILE A><##
    IF A=## THEN 15; CALL OUTBT; 12 FI
    CALL OUTBT; X+1
OD; GO LINK1

RBUS

%
% OUTBT
% SUBROUTINE TO OUTPUT ONE CHARACTER ON THE TERMINAL
%
% ENTRY: A=CHARACTER
%

SUBR 9OUTBT
9OUTBT: T:=SAVT:=1; *MON 2; MON 65
EXIT

RBUS

%
% MON70
% SUBROUTINE TO EXECUTE THE MONITOR CALL COMND (MON 70)
%

SUBR 9MON70
9MON70: A:=BUFFP; *MON 70; EXIT

```


RBUS

```
%
% COPYTEXT
% SURROUTINE TO COPY A TEXT STRING TO THE DISKETTE
%
% ENTRY: A=ADDRESS OF TEXT STRING
%
```

SUBR TEXTCOPY

TEXTCOPY: A=:D; X:=0
DO

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    T:=D; *LBYT; AAX 1
    WHILE A><##'
        * BSET ZRO 70 DA; BSKP ZRO 60 DA; BSET BCM 70 DA
        * BSKP ZRO 50 DA; BSET BCM 70 DA; BSKP ZRO 40 DA
        * BSET BCM 70 DA; BSKP ZRO 30 DA; BSET BCM 70 DA
        * BSKP ZRO 20 DA; BSET BCM 70 DA; BSKP ZRO 10 DA
        * BSET BCM 70 DA; BSKP ZRO 00 DA; BSET BCM 70 DA
    T:=DESTFILE; *MON 2; MON 65
OD; EXIT
```

RBUS

```
%
% COPYFILE
% SUBROUTINE TO COPY A FILE TO THE DISKETTE
%
```

SUBR FILECOPY

FILECOPY: DO

```
    T:=SOURCEFILE; *MON 1; JMP OUT
    T:=DESTFILE; *MON 2; MON 65
```

OD

OUT: IF A=3 THEN EXIT FI
*MON 65

RBUS

@MAC
)9RLPL
)9SCLC

```
%=====
%=====
%
%   T E X T - S T R I N G S   T O   B E   C O P I E D
%   T O   T H E   D I S K E T T E S
%
%   THE TEXT-STRINGS ARE LISTED IN THE SAME ORDER AS THEY
%   WILL BE COPIED TO THE DISKETTES.
%   A COMMENT GIVING THE FILENAME INDICATES WHERE THIS FILE
%   IS COPIED TO THE DISKETTE.
%
%=====
%=====
```

TX000, 'D)LINE

```
%=====
%   L A Y O U T   O N   D I S K E T T E - I
%=====
```

TX010, '

%% PATCHING PROCEDURE:
%% =====

%% BEFORE 22! IS TYPED, PATCHES TO THE SYSTEM CAN BE DONE BY CALLING
%% A SET OF MACROES FOR THIS PURPOSE.
%% THE MACROES ARE CALLED BY ENTERING THE MACRO-NAME FOLLOWED BY
%% CARRIAGE-RETURN AND LINE-FEED.

%% NAMES OF THE MACROES AND CORRESPONDING AREA FOR PATCHES:

```
%% -----
%%   - PFILS                CORRECTIONS IN THE FILE-SYSTEM
%%
%%   - PRTLC                CORRECTIONS IN THE RT-LOADER
%%
%%   - PPOFF                CORRECTIONS IN THE "PAGING-OFF" AREA
%%
%%   - PRESI                CORRECTIONS IN RESIDENT, OP. SEGM
%%
%%   - PFEND                RESET CORE-IMAGE BEFORE STARTING!
%%
%% -----
```

%% *** I*M*P*O*R*T*A*N*T ***

%%
%% IF PATCH-MACROES HAVE BEEN USED, THE MACRO / PEND / MUST BE
%% CALLED TO RESET CORE IMAGE!!

%% -----

10,0\$

XXX=4000 % RJO 06/06/78!!!!!!!!!!

YYY=100
ZZZ=4000
)OTABL XXX YYY ZZZ
)CLEAR
%%
%% NAMES OF)9BYTT PARAMETERS
%%
%% A = CRMAX , B = CLM , C = COADR , D = LONG , E = XDSKT
%% F = MSTYP , G = DEVNO , H = DASA , L = MACAD , M = DRES
%% N = RLTS , O = RTAD , P = 99MRE , Q =
%%
A=175777
B=100
C=30000
D=30000
E=0

)MCDEF REMOV
F=2
G=500
H=10
M=2000
L=1000
N=M
O=4200
P=L
Q=3600
R

)MCDEF FIXED
F=2
G=500
H=100010
M=102000
L=101000
N=M
O=104200
P=L
Q=103600
R

)MCDEF DRUM
F=0
G=540
H=40
M=4000
L=2000
N=M
O=10400
P=L
Q=7400
R

)MCDEF BD33
F=3
G=1540
H=2
L=200
M=400
N=M
O=1040
P=L
Q=740
R

)MCDEF BD38
F=4
G=1540
H=2
L=200
M=400
N=M
O=1040
P=L
Q=740
R

)MCDEF BD66
F=3
G=1540
H=2
L=200
M=400
N=M
O=1040
P=L
Q=740
R

)MCDEF BD75
F=4
G=1540
H=2
L=200
M=400
N=M

O=1040
P=L
Q=740
R

)MCDEF BD288
)KILL E
F=5
G=1540
H=2
L=200
M=400
N=M
O=1040
P=L
Q=740
R=100000
R

)MCDEF BDREM
F=6
G=1540
H=2
L=200
M=400
N=M
O=1040
P=L
Q=740
R

)MCDEF BDFIX
F=6
G=1540
H=100002
L=100200
M=100400
N=M
O=101040
P=L
Q=100740
R
10,1\$

%% SINTRAN-III 80.02.01.A LOAD: SINTRAN-DISKETTE-I
%% =====

%% CHOOSE MASS STORAGE BY GIVING ONE OF THE FOLLOWING CODES
%% FOLLOWED BY CARRIAGE RETURN AND LINE-FEED.

%% IF SYSTEM ON BIG-DISC 33 MEGABYTES, ----- TYPE: BD33
%% IF SYSTEM ON BIG-DISC 38 MEGABYTES, ----- TYPE: BD38
%% IF SYSTEM ON BIG-DISC 66 MEGABYTES, ----- TYPE: BD66
%% IF SYSTEM ON BIG-DISC 75 MEGABYTES, ----- TYPE: BD75
%% IF SYSTEM ON BIG-DISC 288 MEGABYTES, ----- TYPE: BD288
%% IF SYSTEM ON BIG REMOVABLE CARTRIDGE DISK, TYPE: BDREM
%% IF SYSTEM ON BIG FIXED CARTRIDGE DISK, ---- TYPE: BDFIX
%% IF SYSTEM ON REMOVABLE CARTRIDGE DISK, ---- TYPE: REMOV
%% IF SYSTEM ON FIXED CARTRIDGE DISK, ----- TYPE: FIXED
%% IF SYSTEM ON DRUM, ----- TYPE: DRUM

%% CHOOSE MASS-STORAGE DEVICE, AND TYPE 10,0\$ TO CONTINUE.
1,0\$
I

TX020, I
)KILL REMOV FIXED DRUM BD33 BD38 BD66 BD75 BD288 BDREM BDFIX

)MCDEF PFILS
)KILL A
A=175777
)9BYTT F G C D B N L A L H
R

)MCDEF PRTLO
)KILL A
A=175777
)9BYTT F G C D B N O A L H
R

)MCDEF PPOFF
)KILL A
A=175777
)KILL BASE
)KILL DISP
BASE=9SMRE
DISP=40000
)9BYTT F G C D B N P A L H
R

)MCDEF PRESI
)KILL A
A=175777
)9BYTT F G C D B N M A L H
R

)MCDEF PEND
)9BYTT F G C D B N M A L H
)GJEM
)KILL A
A=77777
)9BYTT F G C D B N M A L H
R

)MCDEF PFTER
)9SBLO 4
)9ASSM 10,1
R

)MCDEF PFLP
)9SBLO 4
)9ASSM 10,5
R

)9BYTT F G C D B N M A L H
10,0,10\$
)9READ
,

%*****
% BPUN-01-5:SYMB
%*****

TX030, '
10,0,10\$
)9READ
,

%*****
% BPUN-01-7:SYMB
%*****

TX040, '
10,0,10\$
)9READ
,

%*****
% BPUN-01-B:BPUN
%*****

TX050, '
)9BYTT F G C D B N L A L H
10,0,10\$
)9READ
,

%*****
% BPUN-01-6:SYMB
%*****

TX060, '
10,0\$
,

%*****
% LIST-01:SYMB
%*****

TX070, '
10,0,10\$
)9READ
,

%*****
% BPUN2:SYMB
%*****

TX080, '
10,0\$
,

%*****
% ULIST2:SYMB
%*****

TX090, '
10,0,10\$
)9READ
,

%*****
% BPUN-01-E:BPUN
%*****

TX100, '
10,1\$
%%

%% DUMPING OF FILE-SYSTEM DONE.

10,0\$
>9BYTT F G C D B N O A L H
10,0,10\$
>9READ
,

%*****
% BPUN1:SYMB
%*****

TX110, '
10,0\$
,

%*****
% ULIST1:SYMB
%*****

TX120, '
10,1\$
%%

%% DUMPING OF RT-LOADER DONE.
10,0\$

>9BYTT F G C D B N Q A L H
10,1\$

%% INSERT SINTRAN-DISKETTE-II IN FLOPPY-DISK UNIT 0
%% AND TYPE: 10,0\$ TO CONTINUE LOADING
>9SBL0 4
,

%=====

% L A Y O U T D I S K E T T E - I I

%=====

TX130, '
10,1\$
%%

%% SINTRAN-III 80.02.01.A LOAD: SINTRAN-DISKETTE-II
%% =====

10,0,10\$
>9READ
,

%*****
% BPUN-01-X:BPUN
%*****

TX140, '
10,1\$
%%

%% DUMPING OF SPOOLING-PROGRAM DONE.
10,0\$

>9BYTT F G C D B N P A L H
10,0,10\$
>9READ
,

%*****
% BPUN-01-A:BPUN
%*****

TX150, '
10,1\$
%%

%% DUMPING OF "PAGING-OFF" AREA DONE.
10,0\$

>9BYTT F G C D B N M A L H
10,0,10\$
>9READ
,

%*****
% BPUN4:SYMB
%*****

TX160, '
10,0\$
,

%*****
% ULIST4:SYMB
%*****

TX170, '
10,0,10\$
>9READ
,

%*****
% BPUN-01-8:SYMB
%*****

TX180, '
10,1\$
%%
%% DUMPING OF SINTRAN DONE.
%%
%%)GJEM AND)9BYTT IS EXECUTED.
10,0\$
30/M
2/E
)GJEM
)KILL A
A=77777
)9BYTT F G C D B N M A L H
10,1\$

%% A CTOM2 DISKETTE IS REQUIRED WHEN YOU WANT TO MAKE
%% A "COLD START" OF THE SYSTEM. (CTOM2/HENT START)
%%
%% THIS DISKETTE, SINTRAN-DISKETTE-II, WILL AUTOMATICALLY
%% BE PREPARED AS CTOM2 DISKETTE FOR YOUR SYSTEM, AND
%% SHOULD BE USED AS CTOM2 IN FUTURE "COLD-STARTS".
%%
%% ADDITIONAL CTOM2 DISKETTES CAN BE MADE BY INSERTING
%% A NEW FLOPPY IN FLOPPY-DISK-1 UNIT 0 AND GIVE
%% THE COMMAND)CTOM2
%%
%% THE SINTRAN III SYSTEM MAY BE STARTED BY TYPING 22!
%%
)CTOM2
,
)QEND
)QEOF
@
@EOF